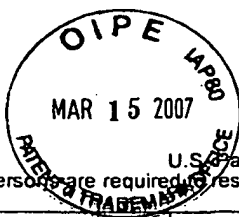


Please type a plus sign (+) inside this box ☐



PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/032,281
				Filing Date	December 21, 2001
				First Named Inventor	WYRICK, JOHN
				Group Art Unit	1637
				Examiner Name	Fredman, Jeffrey Norman
Sheet	1	of	2	Attorney Docket Number	10050560-1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	6,982,145		Mercola et al.	01-03-2006	
	A2					
	A3					

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document		Country	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup> (if known)				
	B1	WO	02/14550	PCT	02-21-2002		
	B2	WO	04/053106	PCT	06-24-2004		
	B3	WO	04/087965	PCT	10-14-2004		
	B4	WO	04/097577	PCT	11-11-2004		
	B5	WO	05/054461	PCT	06-16-2005		
	B6						
	B7						

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	C1	BAR-JOSEPH et al., "Computational discovery of gene modules and regulatory networks," Nature Biotechnology, 21(11):1337-1342 (2003)
	C2	BIGLER et al., "Isolation of a Thyroid Hormone-Responsive Gene by Immunoprecipitation of Thyroid Hormone Receptor-DNA Complexes", Molecular and Cellular Biology, 14:7621-7632 (1994)
	C3	BIGLER et al., Novel location and function of a thyroid hormone response element," The EMBO Journal, 14:5710-5723 (1995)
	C4	BOTQUIN et al., "New POU dimmer configuration mediates antagonistic control of an osteopontin preimplantation enhancer by Oct-4 and Sox-2," Genes & Development, 12:2073-2090 (1998)
	C5	COHEN-KAMINSKY et al., "Chromatin immunoselection defines a TAL-1 target," The EMBO Journal, 17:5151-5160 (1998)
	C6	DEVEAUX et al., "p45 NF-E2 regulates expression of thromboxane synthase in megakaryocytes," The EMBO Journal, 18:5654-5661 (1997)
	C7	GOULD et al., "Targets of homeotic gene control in Drosophila," Nature 348:308-312 (1990)

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.

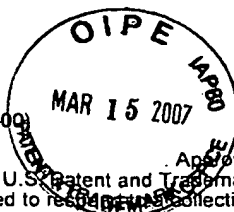
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

1091347\_1.DOC

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KH/

Please type a plus sign (+) inside this box ☐

PTO/SB/8B (08-00)



Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/032,281
		Filing Date	December 21, 2001
		First Named Inventor	Wyrick, John
		Group Art Unit	1637
		Examiner Name	Fredman, Jeffrey Noman
Sheet	2	of	2
		Attorney Docket Number	10050560-1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C8	GOULD et al., "Connectin, a target of homeotic gene control in Drosophila," Development 116:1163-1174 (1992)	
	C9	GRABA et al., "Homeotic control in Drosophila; the scabrous gene is an <i>in vivo</i> target of Ultrabithorax proteins," The EMBO Journal 11:3375-3384 (1992)	
	C10	GRABA et al., "DWnt-4, a novel Drosophila Wnt gene acts downstream of homeotic complex genes in the visceral mesoderm," Development 121:209-218 (1990)	
	C11	GRABA et al., "Drosophila Hox complex downstream targets and the function of Homeotic genes," BioEssays 19(5):379-388 (1997)	
	C12	GRANDORI et al., "Myc-Max heterodimers activate a DEAD box gene and interact with multiple E box-related sites <i>in vivo</i> ," The EMBO Journal 15:4344-4357 (1996)	
	C13	HALLAHAN et al., "c-jun and Egr-1 Participate in DNA Synthesis and Cell Survival in Response to Ionizing Radiation Exposure," J. Biol. Chem. 270(51):30303-30309 (1994)	
	C14	HARTEMINK et al., "Combining location and expression data for principled discovery of genetic regulatory network models," Proceedings of the Pacific Symposium on Biocomputing, 437-449 (2002)	
	C15	KOHWI-SHIGEMATSU et al., "Identification of Base-Unpairing Region-Binding Proteins and Characterization of Their <i>in Vivo</i> Binding Sequences," Methods of Cell Biology 53:323-354 (1998)	
	C16	Lee et al., "Transcriptional Regulatory Networks in Saccharomyces cerevisiae," Science, 298:799-804 (2002)	
	C17	MUKHERJEE et al., "Rapid analysis of the DNA binding specificities of transcription factors with DNA microarrays," Nature Genetics, 36(12):1331-1339, (2004)	
	C18	NICKERSON et al., "The nuclear matrix revealed by eluting chromatin from a cross-lined nucleus," Proc. Natl. Acad. Sci. USA 94:4446-4450 (1997)	
	C19	ODOM et al., "Control of Pancreas and Liver Gene Expression by HNF Transcription Factors," Science, 303(5662):1378-1381 (2004)	
	C20	ORLANDO et al., Mapping Polycomb-Repressed Domains in the Bithorax Complex Using <i>In Vivo</i> Formaldehyde Cross-Linked Chromatin," Cell, 75:187-198 (1993)	
	C21	ORLANDO et al., "Analysis of Chromatin Structure by <i>in Vivo</i> Formaldehyde Cross-Linking," METHODS: a Companion to Methods in Enzymology, 11:205-214 (1997)	
	C22	PRADEL et al., "From selectors to realizers," Int. J. Dev. Biol. 42:417-421 (1992)	
	C23	SCHOUTEN, The Journal of Biol. Chem. 260:9929-9935 (1985)	
	C24	SOLOMON et al., "Formaldehyde-Mediated DNA-Protein Crosslinking: A Probe for <i>In Vivo</i> Chromatine Structures," Proc. Natl. Acad. Sci. USA 82:6470-6474 (October 1985)	
	C25	TOMOTSUNE, "A mouse homologue of the Drosophila tumour-suppressor gene 1(2)gl controlled by Hox-C8 <i>In vivo</i> ," Nature 366:69-72 (1991)	
	C26	WALTER et al., "Measurement of <i>in Vivo</i> DNA Binding by Sequence-Specific Transcription Factors Using UV Cross-Linking," METHODS: a Companion to Methods in Enzymology 11:215-224 (1997)	
	C27	WEINMANN et al., "Isolating human transcription factor targets by coupling chromatin immunoprecipitation and CpG island microarray analysis," Genes & Development, 16:235-244, (2002)	
	C28	WYRICK et al., "Deciphering gene expression regulatory networks," Current Opinion in Genetics and Development, 12:130-136, (2002)	
Examiner Signature	/Kenneth Horlick/		Date Considered 05/27/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.  
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

1091347\_1.DOC

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KH/

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10032281	
	Filing Date		2001-12-21	
	First Named Inventor		John Wyrick et al.	
	Art Unit		1637	
	Examiner Name		Fredman, Jeffrey Norman	
	Attorney Docket Number		10050560-1	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10032281
	Filing Date		2001-12-21
	First Named Inventor	John Wyrick et al.	
	Art Unit	1637	
	Examiner Name	Fredman, Jeffrey Norman	
	Attorney Docket Number	10050560-1	

/KH/	1	Francis Barany, Title: "The Ligase Chain Reaction In A PCR World", Department Of Microbiology, Hearst Microbiology Research Center, Cornell University Medical College, New York, NY 10021, pp. 1-12. (1991)	<input type="checkbox"/>
	2		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE			
Examiner Signature	/Kenneth Horlick/	Date Considered	05/27/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.

0399.1212-005

APPLICATION NO.

10/032,281

3<sup>rd</sup> SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT IN AN APPLICATION

June 27, 2005

Use several sheets if necessary)

FIRST NAMED INVENTOR

John Wyrick

FILING DATE

December 21, 2001

EXAMINER

Fredman, Jeffrey Norman

CONFIRMATION NO.

4057

GROUP

1637

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AG			
	AH			
	AI			
	AJ			
	AK			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO	
	AN					
	AM					
	AO					
	AP					
	AQ					

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/KH/	AY2	Zhu, G., <i>et al.</i> , "Two Yeast Forkhead Genes Regulate the Cell Cycle and Pseudohyphal Growth," <i>Nature</i> 406:90-94 (July 2000).
/KH/	AZ2	Kumar, R., <i>et al.</i> , "Forkhead Transcription Factors, Fkh1p and Fkh2p, Collaborate with Mcm1p to Control Transcription Required for M-Phase," <i>Curr. Biol.</i> 10(15): 896-906 (2000).
	AR3	
	AS3	

EXAMINER

/Kenneth Horlick/

DATE CONSIDERED

05/27/2008